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Serial no. 10/670,061 Filed 9/24/2003

Attorney docket no. 200207971-1

In the claims

 (Currently amended) A driver circuit for driving simultaneously a variable number of firing resistors for a printhead during a printing firing cycle, the driver circuit comprising:

a drive circuit for supplying firing pulses for firing the variable number of firing resistors during the printing firing cycle, the driver circuit being a voltage source supplying a voltage of a drive signal encompassing the firing pulses, the voltage having a predetermined magnitude;

a circuit for adjusting [[a]] the predetermined magnitude of [[a]] the voltage or a current of said drive signal during the printing firing cycle in dependence on the variable number of firing resistors to be fired simultaneously in a given subset during the printing firing cycle,

wherein the circuit applies a data variable offset voltage dependent on the variable number of firing resistors, and a fixed offset voltage not dependent on the variable number of firing resistors.

2. (Cancelled)

- (Currently amended) The driver circuit of Claim [[2]] 1, wherein said circuit adjusts the voltage predetermined magnitude of the voltage in dependence on said variable number of firing resistors being simultaneously fired.
- (Original) The driver circuit of Claim 3, wherein said circuit provides an increased voltage magnitude for larger variable numbers.

5. (Cancelled)

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 (Currently amended) The driver circuit of Claim [[5]] 1, wherein said fixed offset voltage is inversely proportional to the variable number of firing resistors.

 (Currently amended) The driver circuit of Claim [[2]] 1, wherein said fixed offset voltage is a monotonically increasing function of said variable number of firing resistors.

8.-12. (Cancelled)

13. (Currently amended) A driver circuit for driving simultaneously a variable number of firing resistors for a printhead, the driver circuit comprising:

a drive circuit for supplying a drive signal for firing the variable number of firing resistors during a printing firing cycle, the drive circuit including a voltage source providing a voltage of the drive signal, the voltage having a predetermined magnitude;

means for adjusting [[a]] the predetermined magnitude of [[a]] the voltage or a current of said drive signal during the printing firing cycle in dependence on the variable number of firing resistors to be fired simultaneously in a given subset during the printing firing cycle.

wherein said adjusting means comprises circuit means for providing a data variable offset voltage dependent on said variable number of firing resistors and a fixed offset voltage not dependent on said variable number of firing resistors.

14. (Cancelled)

15. (Currently amended) The driver circuit of Claim [[14]] 13, wherein said adjusting means comprises means for adjusting the voltage predetermined magnitude of the voltage in dependence on said variable number of firing resistors being simultaneously fired.

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16. (Original) The driver circuit of Claim 15, wherein said adjusting means provides an increased voltage magnitude for larger variable numbers.

17. (Cancelled)

18. (Currently amended) The driver circuit of Claim [[17]] 13, wherein said offset voltage is inversely proportional to the variable number of firing resistors.

19. (Original) The driver circuit of Claim 13, wherein said magnitude is a monotonically increasing function of said variable number of firing resistors.

20.-24. (Cancelled)